claims, specification, and drawings. Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this document.

Amendments

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-16 (Canceled)

17. (Currently Amended) A high strength cast aluminum alloy product <u>formed</u> <u>from a 2000, 4000, 6000, 7000 or 8000 series aluminum alloy, wherein the aluminum alloy consists essentially of a substantially uniform and [having a] generally round grain structure substantially free of microshrinkage defects, wherein the aluminum alloy product has an elongation of at least about 4% and is produced by a process</u>

comprising the steps of:

providing a molten body of a melted aluminum alloy; centrifugally casting the molten body to form a cast body; and hot isostatically processing the cast body to form a hipped body.

- 18. (Currently Amended) An article formed from [an] a 2000, 4000, 6000, 7000 or 8000 series aluminum alloy, wherein the aluminum alloy consists essentially of a substantially uniform and [having a] generally round grain structure and [being] is substantially free of microshrinkage defects, wherein the aluminum alloy has an elongation of at least about 4%.
- 19. (Original) The article of Claim 18, wherein the aluminum alloy has an average grain size of about 3000 to 4000 μinch.
- 20. (Original) The article of Claim 18, wherein the aluminum alloy is a wrought aluminum alloy having sufficient fluidity as a melt for centrifugal casting.

- 21. (Canceled)
- 22. (Original) The article of Claim 20, wherein the wrought alloy is a 2024, 2090, 2095, 2195 or 2219 aluminum alloy.
- 23. (Original) The article of Claim 20, wherein the wrought alloy is a 6061 aluminum alloy.
- 24. (Original) The article of Claim 23, wherein the wrought alloy is a 6061-T6 aluminum alloy.
- 25. (Original) The article of Claim 20, wherein the wrought alloy is a 7075 aluminum alloy.
- 26. (Original) The article of Claim 20, wherein the wrought alloy is a 8090 aluminum alloy.
- 27. (Original) The article of Claim 18, wherein the aluminum alloy is an Al-Mg-Si type aluminum alloy.
- 28. (Previously Presented) The article of Claim 27, wherein the aluminum alloy comprises 0.4-0.8% Si, 0.15-0.4% Cu, 0.04-0.35% Cr, 0.8-1.2% Mg, 0.05-0.7% Fe and at least 94.85 wt% Al.
- 29. (Original) The article of Claim 18, wherein the aluminum alloy is an Al-Cu type aluminum alloy.
- 30. (Original) The article of Claim 18, wherein the aluminum alloy is an Al-Zn type aluminum alloy.
- 32. (Original) The article of Claim 18, wherein the aluminum alloy article has a tensile strength, a yield strength and an elongation meeting ASTM wrought specifications.
- 33. (Currently Amended) A cast aluminum alloy article formed from a 6000 series aluminum alloy and having an elongation of at least about 4% and a tensile

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strength of at least about 38 KSI, wherein the aluminum alloy [has] consists essentially of a substantially uniform and [a] generally round grain structure.

- 34. (Original) The article of Claim 33 having a 0.2 % offset yield strength of at least about 32 KSI.
- 35. (Original) The article of Claim 34 having a tensile strength of at least about 50 KSI.
 - 36. (Original) The article of Claim 34 having an elongation of at least 8%.
- 37. (Original) The article of Claim 34 having a 0.2 % offset yield strength of at least about 45 KSI.
- 38. (Original) The article of Claim 33 having an elongation of at least 6%, a tensile of at least about 45 KSI and a 0.2 % offset yield strength of at least about 40 KSI.
- 39. (Original) The article of Claim 33 having a Brinell Hardness at 500 kg load of at least about 80.
- 40. (Previously Presented) The product of Claim 17 wherein the aluminum alloy is substantially free of pores having a largest dimension which exceeds 0.0001 inch.
- 41. (Previously Presented) The product of Claim 40 wherein the aluminum alloy is substantially free of intergranular voids.
- 42. (Previously Presented) The product of Claim 41 wherein the aluminum alloy has a grain structure that is substantially uniform.
- 43. (Previously Presented) The article of Claim 18 wherein the aluminum alloy is substantially free of pores having a largest dimension which exceeds 0.0001 inch.
- 44. (Previously Presented) The article of Claim 43 wherein the aluminum alloy is substantially free of intergranular voids.



- 45. (Previously Presented) The article of Claim 44 wherein the aluminum alloy has a grain structure that is substantially uniform.
- 46. (Previously Presented) The article of Claim 33 wherein the aluminum alloy is substantially free of micropores having a largest dimension which exceeds 0.0001 inch.
- 47. (Previously Presented) The article of Claim 33 wherein the aluminum alloy has an average grain size of about 0.003 to 0.004 inch.
- 48. (Previously Presented) The article of Claim 33 wherein the aluminum alloy is substantially free of microshrinkage defects.
- 49. (Previously Presented) The article of Claim 33 wherein the aluminum alloy is substantially free of intergranular voids.
- 50. (Previously Presented) The article of Claim 33 wherein the aluminum alloy has a grain structure that is substantially uniform.
- 51. (Previously Presented) The article of Claim 50 wherein the aluminum alloy has an elongation of at least about 4%.
- 52. (Previously Presented) The article of Claim 33 wherein the aluminum alloy is a 6061 aluminum alloy which has a tensile strength of at least about 45 KSI, a 0.2 % offset yield strength of at least about 40 KSI, and a Brinell Hardness at 500 kg load of at least about 80.
- 53. (Currently Amended) A cast aluminum alloy article formed from a 6000 series aluminum alloy and having an elongation of at least about 4%, a 0.2 % offset yield strength of at least about 32 KSI, and a tensile strength of at least about 38 KSI, wherein the aluminum alloy [has] consists essentially of a substantially uniform and generally round grain structure; and is substantially free of micropores having a largest dimension which exceeds 0.0001 inch; and the generally round grain structure has an average grain size of about 0.003 to 0.004 inch.



54. (Currently Amended) A high strength cast aluminum alloy product formed from a 6000 series aluminum alloy, wherein the aluminum alloy product consists essentially of a substantially uniform and [has] a generally round grain structure, substantially free of microshrinkage defects and is produced by a process comprising the steps of:

providing a molten body of the 6000 series aluminum alloy; centrifugally casting the molten body to form a cast body; and hot isostatically processing the cast body to form a hipped body;

wherein the aluminum alloy product has an elongation of at least about 4%, a 0.2 % offset yield strength of at least about 32 KSI, and a tensile strength of at least about 38 KSI.

- 55. (Previously Presented) The product of Claim 54 wherein the aluminum alloy has a Brinell Hardness at 500 kg load of at least about 80.
- 56. (Previously Presented) The product of Claim 54 wherein the aluminum alloy is a 6061 aluminum alloy which has an elongation of at least about 6% and a tensile strength of at least about 42 KSI.
- 57. (Previously Presented) The product of Claim 54 wherein the aluminum alloy has a substantially uniform and generally round grain structure; and is substantially free of micropores having a largest dimension which exceeds 0.0001 inch; and the generally round grain structure has an average grain size of about 0.003 to 0.004 inch.
- 58. (New) The product of Claim 54 wherein the aluminum alloy has a 0.2 % offset yield strength of at least about 40 KSI, and a tensile strength of at least about 45 KSI.
- 59. (Currently Amended) A high strength cast aluminum alloy product formed from a 7000 series aluminum alloy, wherein the aluminum alloy product consists essentially of a substantially uniform and [has] a generally round grain structure, substantially free of microshrinkage defects and is produced by a process comprising the steps of:



providing a molten body of the 7000 series aluminum alloy; centrifugally casting the molten body to form a cast body; and hot isostatically processing the cast body to form a hipped body;

wherein the aluminum alloy product has <u>an elongation of at least about 4%</u>, a 0.2 % offset yield strength of at least about 40 KSI, and a tensile strength of at least about 50 KSI.

- 60. (Canceled)
- 61. (Previously Presented) The product of Claim 59 wherein the aluminum alloy has a tensile strength of at least about 75 KSI.
- 62. (Previously Presented) The product of Claim 59 wherein the aluminum alloy has a 0.2 % offset yield strength of at least about 65 KSI.
- 63. (Previously Presented) The product of Claim 59 wherein the aluminum alloy is a 7075 aluminum alloy.
- 64. (Previously Presented) The product of Claim 63 wherein the aluminum alloy is a 7075-T6 aluminum alloy.
- 65. (Previously Presented) The product of Claim 59 wherein the aluminum alloy is has a Brinell Hardness at 500 kg load of at least about 80.
- 66. (New) The product of Claim 59 wherein the aluminum alloy has an elongation of at least about 4%; a tensile strength of at least about 75 KSI; and a 0.2 % offset yield strength of at least about 65 KSI.

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